

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A resonant arrangement for a linear compressor, comprising:
 - a non-resonant assembly formed by a motor and a cylinder;
 - a resonant assembly formed by a piston reciprocating inside the cylinder, the cylinder being closed by a cylinder head defining between a top portion of the piston and said cylinder head a compression chamber;
 - an actuating means coupled to the bottom portion of the piston operatively coupling the piston to the motor; and
 - at least one spring means, mounted to the actuating means and which is elastically and axially deformed toward the displacement of the piston, wherein the spring means presents an elongated tubular body, which is coaxial in relation to the axis of the piston and has an end operatively coupled to the actuating means and an opposite end operatively coupled to the non-resonant assembly, said tubular body providing a tubular wall extending from the end operatively coupled to the actuating means to the opposite end, said tubular body having at least part of the extension thereof folded in circumferential sectors that are symmetric in relation to the axis of said tubular body, each circumferential sector being elastically deformed in the axial direction upon displacement of the piston.
2. (Previously Presented) The resonant arrangement according to claim 1, characterized in that the circumferential sectors present the same cross section profile.
3. (Previously Presented) The resonant arrangement according to claim 2, characterized in that each circumferential sector presents a substantially "V" shaped

4. (Previously Presented) The resonant arrangement according to claim 3, characterized in that the circumferential sectors present the same dihedral angle.
5. (Previously Presented) The resonant arrangement according to claim 1, characterized in that the circumferential sectors are orthogonal to the longitudinal axis of the tubular body.
6. (Currently Amended) The resonant arrangement according to claim 1, characterized in that the tubular body providing the tubular wall presents a non-hollow lateral surface extending from the end operatively coupled to the actuating means to the opposite end.
7. (Currently Amended) The resonant arrangement according to claim 1, characterized in that the fixation of each end of the tubular body to the adjacent part defined by the cylinder and the actuating means is obtained by one of the processes of welding, gluing and screwing.
8. (Previously Presented) The resonant arrangement according to claim 7, characterized in that each one of the ends of the tubular body is defined by a respective tubular extension not presenting the circumferential sectors and dimensioned to provide a fitting to the respective part to which it is affixed.
9. (Previously Presented) The resonant arrangement according to claim 8, characterized in that each part to which is affixed an adjacent end of the tubular body is provided with at least one circumferential tooth which is coaxial to the axis of the piston for fitting said respective end.

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axis of the piston and has an end operatively coupled to the actuating means and an opposite end operatively coupled to the non-resonant assembly, said tubular body providing a tubular wall operable to prevent fluid communication through the wall and extending from the end operatively coupled to the actuating means to the opposite end, said tubular body having at least part of the extension thereof folded in circumferential gores that are symmetric in relation to the axis of said tubular body, each circumferential gore being elastically deformed in the axial direction upon displacement of the piston.